MNNR

MORBIDITY AND MORTALITY WEEKLY REPORT

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Ectopic Pregnancy — United States, 1981-1983

During 1981, 68,000 ectopic pregnancies were reported in the United States; the number decreased to 61,800 in 1982 and increased again to 69,600 in 1983 (Table 1). Over the 14-year surveillance period of 1970-1983, the rate of ectopic pregnancy increased more than threefold from 4.5 per 1,000 pregnancies* in 1970 to 14.0/1,000 in 1983 (Table 1, Figure 1). The rate per 1,000 live births increased fourfold from 4.8 in 1970 to 19.2 in 1983, and the rate per 10,000 females 15-44 years of age increased threefold from 4.2 to 12.6 during 1970-1983. The mortality rate continued to decrease from 0.9/1,000 ectopic pregnancies in 1980 to 0.5/1,000 in 1983 (Figure 2).

Preliminary analysis has revealed that for 1981-1983, as for 1970-1980, the highest rates of ectopic pregnancy were among women 35 years of age or older and among women of black and other races. However, unlike 1970-1980, when the highest rates of ectopic

TABLE 1. Numbers and rates of reported ectopic pregnancies, by year — United States, 1970-1983

			Rates	
Year	No.*	Females 15-44 yrs.†	Live births §	Reported pregnancies 1
1970	17,800	4.2	4.8	4.5
1971	19,300	4.4	5.4	4.8
1972	24,500	5.5	7.5	6.3
1973	25,600	5.6	8.2	6.8
1974	26,400	5.7	8.4	6.7
1975	30,500	6.5	9.8	7.6
1976	34,600	7.2	11.0	8.3
1977	40,700	8.3	12.3	9.2
1978	42,400	8.5	12.8	9.4
1979	49,900	9.9	14.3	10.4
1980	52.200	9.9	14.5	10.5
1981	68,000	12.7	18.7	13.6
1982	61,800	11.5	17.0	12.3
1983	69,600	12.6	19.2	14.0
Total	563,300	8.3	11.8	9.2

^{*}Rounded to nearest 100.

^{*} Includes ectopic pregnancies, legally induced abortions, and live births.

[†]Rate per 10,000 females.

Rate per 1,000 live births.

Rate per 1,000 reported pregnancies (live births, legally induced abortions, and ectopic pregnancies).

Ectopic Pregnancy - Continued

FIGURE 1. Ectopic pregnancy rates per 1,000 reported pregnancies, by year, - United States, 1970-1983

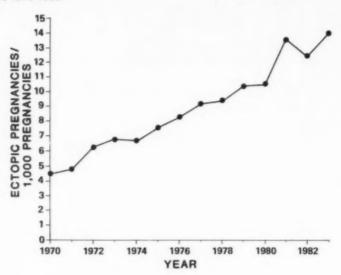
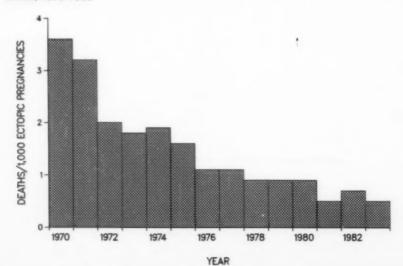


FIGURE 2. Mortality rates for women with ectopic pregnancies, by year, - United States, 1970-1983



Ectopic Pregnancy - Continued

pregnancy occurred in the Northeast and the lowest occurred in the South, during 1981-1983, the highest rates were in the West, and the lowest, in the Northeast.

As in 1970-1980, in 1981-1983 there was no substantial difference in the risk of dying from ectopic pregnancy among women of different age groups. The mortality rate was highest in the South and lowest in the West. However, women of black and other races had a threefold higher risk of death from ectopic pregnancy than white women, compared with a 3.6-fold higher risk during 1970-1980.

Reported by Pregnancy Epidemiology Br, Research and Statistics Br, Div of Reproductive Health, Center for Health Promotion and Education, CDC.

Editorial Note: CDC has previously reported on ectopic pregnancy in the United States for 1970-1980 (1). Data on ectopic pregnancy incidence were obtained from the National Hospital Discharge Survey of the National Center for Health Statistics. The increasing incidence of ectopic pregnancy is probably related to improved diagnostic technology, as well as to an increased incidence of pelvic inflammatory disease (2). There is no ready explanation for the out-of-proportion increase in the number and rate of ectopic pregnancies in 1981.

Ectopic pregnancy mortality data for 1979-1982 were obtained from CDC's Ectopic Pregnancy Mortality Surveillance. For the other years, mortality data were obtained from death certificate data from NCHS. Numbers from those two sources have been found to be comparable.

Mortality due to ectopic pregnancy dropped dramatically in the early 1970s and more slowly during the recent years (Figure 2). Overall, the mortality rate decreased sevenfold from 3.5 deaths/1,000 ectopic pregnancies in 1970 to 0.5/1,000 in 1983.

References

- MacKay HT, Hughes JM, Hogue CJR. Ectopic pregnancy in the United States, 1979-1980. In: CDC surveillance summaries. Atlanta, Georgia: Centers for Disease Control, 1984;33(No. 2SS):1SS-7SS.
- Washington AE, Cates W Jr, Zaidi AK. Hospitalizations for pelvic inflammatory disease: epidemiology and trends in the United States. 1975 to 1981. JAMA 1984;251:2529-33.

Horsemeat-Associated Trichinosis - France

In August and October 1985, two outbreaks of trichinosis associated with consumption of horsemeat occurred in France. Brief reports follow.

Outbreak 1. During the week of August 12, 1985, several cases of trichinosis were diagnosed in Melun, a town located 30 miles southeast of Paris. Shortly thereafter, several more cases were diagnosed from a southern district of Paris in the 14th arrondissement. An investigation was undertaken to determine the extent and source of this outbreak. Cases of trichinosis were identified through review of medical records from private and public laboratories and contact with local physicians in the two areas where the initial cases were identified. Three hundred seventy-five (92%) of 409 persons with potential trichinosis were interviewed. A case was defined as an individual with (1) a *Trichinella*-positive muscle biopsy, with recent signs and symptoms suggestive of trichinosis; (2) positive indirect immunofluorescence test (titer greater than 1:100) for *Trichinella* antibodies, with recent signs and symptoms suggestive of trichinosis; or (3) at least three of the following signs and symptoms suggestive of trichinosis: eosinophilia, fever, myalgia, and/or periorbital edema.

Three hundred twenty-five individuals met the case definition. One hundred fifty-nine (49%) of the patients were from the 14th arrondissement of Paris, and 166 (51%) were from Melun. Patients' ages ranged from 2 years to 86 years (mean 41 years). One hundred sixty-six (51%) were male. Age distribution by sex was similar.

Diagnosis was made by a positive muscle biopsy in one patient, positive serology in 234

Trichinosis - Continued

(72%), and clinical presentation in 90 (28%). Of the symptoms compatible with trichinosis, myalgia was reported among 306 (94%) of the patients; fever, among 293 (90%); facial edema, among 189 (58%); diarrhea, among 169 (52%); and rash, among 137 (42%). Twenty percent of the patients complained of neurologic symptoms, including paresis, oculomotor dysfunction, visual field changes, dyaesthesia, and dizziness. Onset of symptoms, known for 288 (89%) patients, occurred between July 29, and September 15, 1985 (Figure 3). Two patients died—an 86-year-old man, and a 65-year-old man with a history of heart disease. Four patients were pregnant; one had a miscarriage during the sixth week of pregnancy. Examination of fetus and placenta revealed no larva. The other three women delivered healthy babies.

The investigation implicated horsemeat as the source of the outbreak. All 325 patients reported consuming horsemeat—99% of whom ate it raw or rare—before onset of illness, compared with 38% of a random sample of 198 people questioned on a street in the 14th arrondissement of Paris. Family members of patients who did not eat any horsemeat but shared other food with the patients did not become infected with trichinosis. Similarly, a case-control study in a Melun prison showed that all cases and no controls had ingested horsemeat. Although several butchers in Paris and Melun sell horsemeat, all patients purchased their horsemeat exclusively from one of two shops between July 22 and August 5. The butchers from

(Continued on page 297)

TABLE I. Summary-cases specified notifiable diseases, United States

		16th Week En	ding	Cumuli	stive, 18th Weel	k Ending
Dicease	May 3, 1986	May 4, 1985	Median 1981-1985	May 3, 1986	May 4, 1985	Median 1981-198
Acquired Immunodefic-ency Syndrome (AIDS)	195	82	14	4.306	2.293	N
Aseptic meningitis	63	84	84	1.459	1.248	1,366
Encephalitis: Primary (arthropod-borne						
& unspec)	6	22	18	260	317	317
Post infectious	4	3	3	30	48	34
Sonorrhes Civilian	13,123	14.832	18.226	274,042	269,233	307,418
Military	138	347	439	5,197	6,425	8,293
lepatitis: Type A	277	402	402	7,528	7,404	7,894
Type 8	469	455	464	8.587	8,536	7,900
Non A. Non B	60	72	N	1.145	1.445	N
Unspecified	91	105	147	1.704	1,817	2,522
egionellosis	6	9	N	186	210	N
eprosy	6	9	7	99	146	75
Aglaria	17	17	19	244	247	247
feasies. Total*	170	81	81	2,227	1.082	1,082
Indigentus	160	48	N	2,153	864	N
Imported	10	33	N	74	218	N
Meningococcal infections Total	45	58	62	1,104	1,070	1,247
Civilian	45	58	62	1,102	1,067	1,245
Military				2	3	5
Aumps	42	77	96	1,150	1,435	1,526
erfustis	38	26	26	739	521	521
lubella (German measles)	4	16	27	180	151	418
lyphilis (Primary & Secondary): Civilian	552	498	529	8,528	8,623	10,366
Minary		3	4	72	70	124
oxic Shock syndrome	3	10	N	127	138	N
uberculosis	418	411	441	6,780	6,775	7,598
Ukaremia		3	4	19	29	36
Typhoid fever	6	14	5	78	99	126
Typhus fever, tick-borne (RMSF)	3	17	17	32	51	53
Rabies, animal	128	116	142	1.829	1,683	2,040

TABLE II. Notifiable diseases of low frequency, United States

	Cum 1986		Cum 1986
Anthrax		Leptospirosis	15
Bratulism Foodborne	4	Plaque	
indant	21	Poliomyelitis, Paralytic	
Other		Psittacosis (Tex. 1, N. Mex. 2)	19
Brucellosis (Va.1)	18	Rabies, human	
Choiera		Tetanus (R.I. 1)	13
Congenital rubella syndrome (Calif. 1)	2	Trichinosis	7
Congenital syphilis, ages < 1 year	11	Typhus fever, flas-borne (endemic, murine) (Tex. 2)	8
Diphtheria		77	

*Eight of the 170 reported cases for this week were imported from a foreign country or can be directly traceable to a known internationally imported case within two generations.

TABLE III. Cases of specified notifiable diseases, United States, weeks ending May 3, 1986 and May 4, 1985 (18th Week)

		Aseptic	Encer	halitis	Gonorr	hea	Hep	atitis (Vi	rall, by typ		Legionel-	Lapros
Reporting Area	AIDS	Menin- gitis	Primary	Post-in- fectious	(Civilia		A	8	NA,NB	Unspeci-	losis	Leprosy
	Cum 1986	1986	Cum 1986	Cum 1986	Cum 1986	Cum 1985	1986	1986	1986	1986	1986	Cum 1986
UNITED STATES	4,306	63	260	30	274,042	269,233	277	469	60	91	6	99
NEW ENGLAND	171		9	1	6,286	8.270	8	36	4	7	-	2
Maine	9		-		334 175	338 173						
Ni H	7 2	*	2 2	1	95	85		1	1		-	-
Vt. Mass	92	-	2		2,659	3.058	6	24	2	7		2
RI	9				623	611	2	10	1			
Conn	52	*	3	-	2,400	4,005	*	10				
MID ATLANTIC	1,641	3	43	1	48.774	37,612	12	38	4	3		9
Upstate N Y	123	1	15	*	5,499	5,328	3	5 2	2	2		7
NY City	1,163		10	*	28,402	17,161 7,177		2		-		-
N.J. Pa	268 87	2	13	1	6,505	7,946	9	31	1	1	~	1
						20 504	17	50	4	7	2	4
EN CENTRAL	228	8	52	4 2	31,679	38,504 9,750	8	29	3	1	ī	-
Ohio	30 26	2	15	2	4,029	3.864	1	4	1	3	-	2
Ind.	106	2	10	-	5,209	10,849	4	2	-			3
Mich	52	3	21		11,536	11,016	4	15	-	3	1	,
Wis	14	*	1		1,925	3,025	*		-			
WN CENTRAL	81	1	9	6	12,345	13,675	15	19	3	2	-	1
Minn	38	1	5		1.865	2.001		6	*		-	,
lowa	7		4	*	1,241	1,462	2 8	9	3	2		
Mo	20			*	6,158	6,328	0	9	3			-
N Dak	2			*	246	252	1				-	
S Dak Nebr	3				881	1,304	-	-	-		-	-
Kans	10			6	1.841	2,232	4	3	-	+		*
C ATLANTIC	583	15	44	11	66,599	57.510	15	99	12	5	1	1
S ATLANTIC	10		. 3		1,170	1,299	1	2	1			
Md	59		10	*	8,173	9,487	2	22	2			
DC	86				5,561 6,098	4,916 6,210	2	10	3			1
Va	61	1	16	*	850	854	-	3			-	-
W Va	26		- 8	1	11,878	10,364		10	2	-		
NC	16				6,392	6,911	-	13	1			
S C Ga	79		3 -		6.682		3	17	2	5		
Fla	244	1 10	0 1	10	19,795	17,469	7	21				
ES CENTRAL	43		2 19	1	23,658	23,482	5	44	1	1		
Ky	12	2	- 8		2.778	2.574	1	21	1	1		
Tenn	19		2 1	1	9,285 6,630	9,240 7,375	3	17				-
Ala			- 9		4,965	4,293	1	3				
Miss.	4						67	37	5	29	2	7
WS CENTRAL	344		7 22	1	34,977	38,106	57	4	1	1		
Ark	5		. 2		6,249	7,780						
Chile	11		2 5		4,012	3,928	8	3	2	20		7
Tex	26		5 15	1	21,370	22.742	45	30	2			
MOUNTAIN	11	6	4 12	1	9,052	8,887	23	28	6		6	. 7
Mont		3		1	239	263	1		-			
Idaho		1	2 .		282	294	2					
Wyo		2	. 2		201	2.665	2	6			4	- 3
Colo	6		1		2,338	1,054					-	
N. Mex.		6	1 !		2,910	2,635	17	15	5		2	- 2
Ariz Utah		6	. :		372	376		3			2	. 2
Nev		1			1,803	1,380	1	4				
PACIFIC	1,09	19	19 50	0 4	40,672	43,187	125	118				1 68
Wash		14		5 .	3.074	3,071	16					
Oreg		23			1,636	2,194	17	16			11	52
Calif	1,02	23	18 4		34,420		91	2				
Alaska		9		2 .	1,084			. 1			-	- 1
Hawaii							3				2	
Guam					34 748		Ü		, ,	1		U
PR	4	48	U	2 .	748						*	-
V I Pac Trust Terr					66	322	12		-	*		-
Amer Samoa			-		. 13		1		*	-		

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending May 3, 1986 and May 4, 1985 (18th Week)

	Malana		Mea	sies (Rub	eola)		Menin-								
Reporting Area		Indiq	genous	Impor	* bei	Total	gococcal Infections	Mu	mps		Pertussio			Rubella	
	Cum. 1986	1986	Cum. 1986	1986	Cum. 1986	Cum. 1985	Cum 1986	1986	Cum. 1986	1986	Cum. 1986	Cum. 1985	1986	Cum	Cum
UNITED STATES	244	160	2.153	10	74	1,082	1,104	42	1,150	38	739	521	4	1986	198
NEW ENGLAND	13		16			89	80	1					•		151
Maine N.H.						-	17		35		43	26	*	1	6
VI	1		er				3		10		15	15		i	2
Mass.	8		15	-		*	11				2	2		1	2
RI	1		1		*	87	17	-	1	*	9	4	-		4
Conn	3		-			2	11 21	1	18	100	. 1	1	*		
MID ATLANTIC	28							-	10	*	1.4	2	*		-
Upstate N.Y.	6	87	871	415	7	74	179	3	66	-	85	62		25	37
N.Y. City	8	54	154	4	6	35	53 36	+	27		59	32		17	8
N.J.	3	31	713	*		7	27	1	5 16	*	3	9		5	12
Pa.	11	-	*	-		8	63	2	18		18	20	-	3	5
EN CENTRAL	8	8	230		-						10	20	-	*	12
Ohio	2	-	4.30		2	356	138	11	542	1	142	76		7	11
Ind		-				1	60	1	58	*	63	13	*		
III. Mich	3	8	133			219	30	*	16 276	*	16	11	-		*
Wis	3	*	*	*		48	33	10	100	1	18	12	*	4	5
	*	*	97	*	2	47	1		92		28	33		2	5
W.N. CENTRAL	6	9	102	4.	7	5									1
Mister.	2	2	10	2 1	2	2	61	*	55	8	45	45	-	7	8
Mo.	1	*	-		1		7		10	4	24	11	*	- 60	-
N Duk	2	*	2	2 1	3	2	22		13		4	3	*		*
S Dak		*	~	*	*			*	2	-	2	6	*	1	:
Nebr.	1	-			*	*	1	*	1	3	3	-		-	1
Kans.		7	90		1	1	11	-	28	*		1			
SATLANTIC	30	12	202						28	*	6	15		6	7
Diet	30	13	297	*	8	126	231	6	89	25	221	-123		6	19
Md	4	5	16		5	16	30			22	107	-			10
O C		*	*			2	2	*	6		24	43			1
N Va	6	*	3		1	16	43	-	15		9		-		
V.C.	3	~	2	*	*	3	3	1	27		4	3	*	-	1
S C	2	8	264	*		1	38		7	-	15	7	-		6
ia	3	-			i	8	24 34	1	11	*	3		*		2
la.	12		11		i	80	56	4	17	2	51	46	*		
S CENTRAL	5	1						-	* *		8	24		6	9
Y	2		2	*	*	*	62	1	15	1	16	4		1	1
65000	*	-	1	-	*	*	11	*	2	-	1	1	-	1	1
Ua	2	*					17	1	11		5	1	*	-	
News.	1	1	1	*	-		7	-	1	1	10	2	*	~	-
S CENTRAL	18		302						,				*	*	*
rk.			271	-	24	65	81	7	91	*	26	61		35	14
ă.	4				2	7	12	1	7	*	2	9			1
Ala.	2				4		12	N	N	*	3	2		-	*
	12	*	31		18	58	48	6	84	-	21	50	*	-	
DUNTAIN	6	24	141		8				-					35	13
kont	~	-	141		1	134	45	3	128	-	86	22		1	3
aho fyo	1	*				11	5		3	*	1	3	*	-	
nyo N	*	*	*				2	*	2		26	-		*	1
Mex	1		2	*	3	5	8	-	6	-	18	8	*	*	*
nz	2	24	16	*	4	2	5	N	N		9	3			1
tah	1	44	123	*		121	13	3	113		23	4		1	1
ev.	1	*				-	5		1	*	9	4	*	-	
KEWIC	120		***				0	*	3		*	-	*		
ash.	130	18	192	2	18	94	227	10	129	3	75	102	4	0.3	
eg	9	2	37	*	7	1	30	*	5	-	26	16	1	97	52
afer	111	16	136	215	8	83	18	N	N		5	16		-	1
éska Wasii		*	*			0.3	170	9	112	2	40	65	3	94	37
and the same of th	*	*	19	*	1	7	1	1	8	1	3	2		:	
iam	1		3								3	3	*	1	12
1	3	Ú	3	ú	*	10	-		2		*	~		2	1
Tours Year			-	-		40	2	U	15	U	4	1	U	58	8
Trust Terr ner Samoa		*	*	*				1	1	*	*	*			
Service	*	*	- 4	*	~							*		-	

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending May 3, 1986 and May 4, 1985 (18th Week)

Symbol S	Reporting Area	Syphilis (Primary &	(Civilian) Secondary)	Toxic- shock		culosis	Tuta-	Typhoid	Typhus Fever (Tick-borne)	Rabies
UNITED STATES 6.528 6.623 3 6.780 6.775 19 78 322 1.829 NEW ENGLAND 173 1911 - 204 237 - 3 1 2 Minima 11 7 - 199 237 - 3 1 1 2 VL	meportung area	Cum	Cum				Cum	Cum	(RMSF)	Animal
NEW ENGLAND 173 191 - 204 237 - 3 1 29 NM ABORD 173 191 - 204 237 - 3 1 2 1 19 16 - 3 - 1 1 19 16 - 3 - 1 173 NH 18 19 10 10 10 10 10 11 10 10 10	UNITED STATES	8,528	8.623	3						1986
Manne	NEW ENGLAND	173					19		32	1.829
Mass				-			-	3	1	2
Mass			3					*		-
AIL 12	Mace				7					-
Conn	RI			*			-	2	1	
MD ATLANTIC 1,216	Conn			-			*			
Upstates NV 64 88	MID ATLANTIC	1.210	1.140					,	*	1
MY CENTRAL See 1. 1	Upstate N Y						*		1	168
MJ 242 243 - 257 128 - 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N Y City						-		1	25
EN CENTRAL 239 105 254 282 139 106 146 2 862 827 4 3 35 106 106 416 45 45 45 133 146 - 2 3 35 108 108 - 2 118 108 109 108 108 108 108 108	NJ								7	
EN CENTRAL 256 416 2 862 827 4 3 35 603 41 34 - 96 103 103 - 2 33 604 41 34 - 96 103 104 56 96 105 105 108 107 108 108 108 108 108 109 109 108 109 108 109 108 109 109	ru.	239	105	~				2		139
Unio	EN CENTRAL	256	416	2	962	007				
ind		45			133					35
Mich 92 214 383 366 - 113							-	-	2	
Wis 20 36 1 205 168										
WN CENTRAL 96 91				1					1	
Milmi	MACAL CONTRACT		-	-	45	44		1	-	8
Temps	W N CENTRAL			-	187	168	6	4	1	205
Mo			23			33				
N Dak								-		
S Dak 1 4 9 4 1 62 62 62 63 17 16 1 24 8 9 431 15 9 17 16 1 24 15 12 16 16 14 1 1 2 16 16 14 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 2 1			35					3		23
SATLANTIC 2,370 2,127			4						. 20	
SATLANTIC 2,370 2,127 - 1,299 1,374 4 8 9 431 Dal 12 16 164 153 - 16 14				-	4		-			
SAILANTIC 2.370 2.127		15	9	*	17	16			1	
Mel 12 16 16 14 3 431 Dec 164 153 94 113 1 1 2 260 Vs 129 126 51 67 1 1 2 260 Vs 129 126 51 67 1 1 1 2 260 Vs 129 126 51 67 1 1 1 2 2 1 74 N.C. 8 4 4 46 32 1 2 1 74 N.C. 186 248 195 173 1 2 2 1 3 Ga 246 253 151 166 1 2 5 1 3 Ga 246 253 151 166 1 2 5 1 3 Ga 246 253 151 166 1 2 5 1 3 Ga 246 253 151 166 1 2 5 1 3 Ga 246 253 151 166 1 2 5 1 3 Ga 246 253 1 5 1 1 2 2 2 6 1 2 Vs 25 31 1 2 1 2 2 6 1 1 2 Vs 25 31 1 5 1 5 1 1 6 1 1 2 Vs 25 31 1 5 1 5 1 1 9 2 1 1 2 Vs 25 31 1 5 1 5 1 1 9 2 1 1 2 Vs 25 31 1 5 1 5 1 1 9 2 1 1 2 Vs 25 31 1 1 5 5 1 1 9 2 1 1 2 Vs 25 31 1 1 5 5 1 1 9 2 1 1 2 Vs 25 31 1 1 5 2 Vs 25 31 1 1 5 5 1 1 9 2 1 1 2 Vs 25 31 1 1 5 5 1 1 9 2 1 2 Vs 25 31 1 1 5 5 1 1 9 2 1 1 2 Vs 25 31 1 1 5 5 1 1 9 2 1 2 Vs 25 31 1 1 5 5 1 1 9 2 1 1 2 Vs 25 31 1 1 5 5 1 1 9 2 1 2 Vs 26 84 94 94 Vs 27 28 84 94 Vs 28 84 94 94 Vs 28 84 94 Vs 28 85 86 94 94 Vs 28 86 86 94 94 Vs 28 86 86 94 94 Vs 28 86 86 Vs 2	SATLANTIC	2,370	2.127		1 200	1 274				
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U Unevailable

TABLE IV. Deaths in 121 U.S. cities," week ending May 3, 1986 (18th Week)

		All Caus	es, By A	ge (Year	s)					All Cause	es, By Ag	ge (Yeers	d		P&I
Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	Pair* Total	Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	Tot
NEW ENGLAND	702	486	130	44	15	27	65	S ATLANTIC	1,433	826	340	154	50	61	4
loston, Mass.	181	109	39	13	7	13	21	Atlanta, Ga.	143	84	43	6	7	3	1
Iridgeport, Conn.	59	38	13	4	2	2	6	Baltimore, Md	239	147	57	22	10	3	
ambridge, Mass	22	17	4	1	~	1	7	Charlotte, N.C.	54	35	13	3	2	1	
all River Mass	67	16	8	3	*	1	ā	Jacksonville, Fla.	117	79 78	29	4 7	3	2	
tartford, Conn.		22	3	1	1		1	Miami, Fla	71	42	15	5	2	7	
owell Mass.	27	17	4			1	1	Norfolk, Va.	87	53	21	4	2	7	
ynn, Mass.		25	2		-		3	Richmond, Va	53	32	18	-	3		
New Bedford, Mass	46	28	7	7	2	2	5	Savannah, Ga St. Petersburg, Fla	107	77	18	6	2	4	
New Haven, Conn. Providence, R.I.	66	48	8	6	2	2	5	Tampa, Fla	81	54	19	5	1	1	
Somerville, Mass	11	10		1	-	-		Washington, D.C.	324	119	71	90	17	26	
Springfield, Mass	44	32	9	1	*	2	4	Wilmington, Del	37	26	8	2	1	-	
Waterbury, Conn.	30	22	3	4	1		2	veminigion, but			-	-			
Worcester, Mass.	77	59	12	3		3	6	ES CENTRAL	794	520	191	35	16	32	4
PROCESSES, MINES.								Birmingham, Ala	129	78	34	4	2	11	
MID ATLANTIC	2.918	1.924	603	262	44	85	140	Chattanooga, Tenn	54	39	14	1			
Albany, N.Y	55	39	10	2		4	*	Knowille, Tenn	76	52	18	3	3		
Allentown, Pa.	22	20	2				*	Louisville, Ky	155	92	41	9	3	10	
Buffako, N.Y.	118	86	21	6	*	5	9	Memphis, Tenn	142	103	32	2	3	2	
Camden, N.J.	38	24	9	3	*	2		Misbile: Ala.	63	40	15	3	-	5	
Elizabeth, N.J.	27	19	6	2	*	*	1	Montgomery, Ala	57	40	11	2	1	3	
Eria, Pa.†	36	23	12	1	-	*	4	Nashville, Tenn	118	76	26	11	4	1	
Jersey City, N.J.	56	32	15	7	1	1									
N.Y. City, N.Y.	1,482	977	296	163	21	25	64	W.S. CENTRAL	1,375	835	341	119	46	31	-
Newark, N.J.	83	35	17	13	4	14	5	Austin, Tex	60	42	13	4	1		
Paterson, N.J.	33	22	3	3	-	5		Baton Rouge, La	69	42	20	3	4	*	
Philadelphia Pa	517	327	121	34	13	22	35	Corpus Christi, Tex	40	24	8	6	1	1	
Pittsburgh, Pa i	55	38	16		*	1	-	Dallas, Tex	158	100	40	13	2	3	
Reading Pa	39	33	5	1	*	-	2	El Paso, Tex.	78	40	20	10	5		
Rochester, N.Y.	121	77	28	11	4	1	12	Fort Worth, Tex	99	58	26	6	. 6	4	
Schenectady, NY	33	24	6	2	*	1	3	Houston, Tex	297	170	77	34	10	6	
Scranton, Pa.t	25	17	6	2		1	7	Little Rock, Ark.	83	46	21	5	A	7	
Syracuse, N Y	90	65	16	8	1		,	New Orleans, La	108	68	25	12		3	
Trenton, N. J.	36	24	7	2		2	3	San Antonio, Tex	216	132	50	19	12	3	
Utica, N.Y.	24	19	5 2	2	-	1	4	Shreveport, La	76 91	48 65	20	5 2	2	3	
Yonkers, N.Y.	28	23	2	2				Tulsa, Okla	91	00	21	2	*	3	
E.N. CENTRAL	2,210	1,478	459	125	68	83	94	MOUNTAIN	619	384	135	51	27	22	:
Akron, Ohio	69	48	12	3	3	3	2	Albuquerque, N Me		52	17	6	4	1	
Camton, Ohio	32	24	6			2	1	Colo Springs, Colo	43	26	13	2	2		
Chicago, III.§	564	361	124	47	11	21	17	Denver, Colo	113	62	23	16	9	3	
Cincinnati, Otio	97	59	27	7	3	1	2	Las Vegas, Nev	80	48	21	7	1	3	
Cleveland, Ohio	161	106	28	13	6	13	6	Ogden, Utah	13	6	3	2	1	1	
Columbus, Ohio	123	79	30	4		2	3	Phoenix, Ariz	144	93	33	7	5	6	
Dayton, Ohio	103	73	23		2		5	Pueblo, Colo	14	10	3			1	
Detroit, Mich	241	136	60	16	16	13	9	Salt Lake City, Utah		26	5	5	1	5	
Evansville, ind.	55	46	5	3	5	1	4	Tucson, Ariz.	90	61	17	6	4	2	
Fort Wayne, Ind.	50	33	3	2	1	1	1	PACIFIC	1,926	1,292	349	167	61	57	1
Gary, Ind.	10	33	3	1	2	2	2	Berkeley, Calif	1,926	1,292	349	10/	61,	5/	. 1
Grand Rapids, Michanapoins, Ind.	190	130	42	8	4	6	4	Fresno, Calif.	83	55	13	9	3	3	
Madision, Wis.	29	23	3	1	2		5	Glendale, Calif	39	36	2	9	1	3	
Madison, Wis. Milwaukee, Wis.	140	110	21	2	2	5	5	Honolulu, Hawaii	65	44	18	2		1	
Peoria, III.	38	28	8	1	1		7	Long Beach, Calif.	120	83	19		3	7	
Rockford, III.	37	28	4	1		4	2	Los Angeles, Calif	502	326	92		22	7	
South Bend, Ind	34	23	8	2		1	3	Oakland, Calif	113	72	20		6	8	
Toledo, Otivo	114	69	32	6	3	4	11	Pasadena, Cakf	38	26	4			3	
Youngstown, Ohio		65	11	3	2	1	3	Portland, Oreg.	117	86	21	4	2	4	
W N CENTRAL	733	520	139	38	12	24	25	Sacramento, Calif San Diego, Calif	158	104	29		6	3	
Dies Moines, lowa	73	53	12	4	1	3		San Francisco, Calif		82	18		2	6	
Distuth Minn	27	21	6	-				San Jose, Calif.	162	107	30		7	4	
Kansas City, Kans.	33	25	6	1	1			Seattle, Wash	136	87	28		3	6	
Kansas City, Mo.	95	65	17	9	1	3	7	Spokane, Wash	62	44	14		2	2	
Lincoln, Nebr	35	27	7	-	1		5	Tacoma, Wash	36	28	7		*	2	
Minneapoles Minn		61	13	6	2	5		Total Control of the			,	,		-	
Omana Netr	84	55	18	7	-	4		TOTAL	12,710	8 265	2,687	995	336	422	. 6
St. Louis, Mo.	174	131	27	5	5	6				3,200	2,00	993	999	764	
St. Paul, Minn.	64	43	15	4	1	1									
Wichita, Kans.	61	39	18		-	2									

^{*}Mortality data in this table are voluntarily reported from 121 cities in the United States, most of which have populations of 100,000 or more. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included.
**Precurrence and influence.*

*Because of changes in reporting methods in these 3 Pennsylvania cities, these numbers are partial counts for the current week. Complete (burnts will be available in 4 to 5 weeks.)

**Total includes unknown ages.*

*Data not available. Figures are estimates based on average of past 4 weeks.

Trichinosis - Continued

these two shops and their families were also infected with trichinosis. Records indicated that each shop received half of a single horse carcass on July 22. The carcass had been shipped as "fresh meat" to France from a slaughterhouse in Connecticut, which ships 8,000-9,000 horses to Europe each year. The establishment is inspected by the U.S. Department of Agriculture, but inspection did not include examination of meat samples for trichinae. Because horses are obtained by the slaughterhouse from multiple sources and are not individually identified on leaving the processing plant, the implicated horse could not be traced to farm of origin. No meat from the implicated horse was available for inspection.

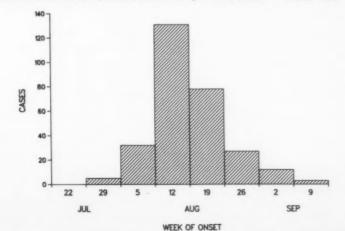
Outbreak 2. Although not fully investigated at this time, a second outbreak of trichinosis occurred in France beginning October 3, 1985. Preliminary reports from physicians and hospitals suggest that up to 900 individuals were infected with trichinosis, most coming from three foci in Paris and its surroundings: Paris 12, Nogent/Marne, and Vitry/Seine. Six provincial foci were also involved but with smaller numbers of patients.

Imported horsemeat was again implicated as the source of the infection. All patients reported eating horsemeat purchased from one shop in each of the foci. Five of nine butchers selling the horsemeat at these shops and their families were infected. Records indicate that all of the implicated shops received portions of the same horse imported from West Germany. Three quarters of the horse were sold as fresh meat in the three main foci of the outbreak on September 12. The remaining quarter was deboned and vacuum-packed in 5- to 20-kg portions and was delivered to the six secondary provincial foci over the next 2 weeks.

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Editorial Note: Horsemeat has rarely been implicated as a source of trichinosis. The first reported outbreaks due to this meat source occurred in Italy in 1975 (1) and in France in 1976 (2). In both instances, the infected horsemeat had been imported from Eastern Europe. How horses become infected with trichinosis is unknown. Horses are commonly observed to be herbivorous; however, experimental studies prompted by the outbreak in Italy indicate that horses will ingest meat placed in their feed and will become infected with trichinosis when

FIGURE 3. Horsemeat-associated trichinosis, by week of onset - France, 1985



Trichinosis - Continued

fed infective larvae (3). The unusually large numbers of cases involved in the two 1985 outbreaks are related to the size of the implicated animal species (the carcass of the horse associated with outbreak 1 was 278 kg) and the preference among French consumers for raw or lightly cooked horsemeat, prepared as steaks, in soups, or ground ("steak tartare"). At the time of the second outbreak, the French Ministry of Agriculture temporarily banned importation of horsemeat from all countries and will currently accept it only if certified trichinae-free by an approved inspection procedure.

Little is known about *Trichinella* infection in horses in the United States, but it is assumed to be extremely rare. Between late October and December 31, 1985, samples from 20,000 horses killed in the United States were examined for *Trichinella*, with negative results. Trichinosis in horses in the United States would presumably represent an unlikely public health hazard because few citizens eat horsemeat, and those who do probably cook it. Since 1975, 30 to 289 U.S. trichinosis cases have been reported per year, approximately 80% of which were associated with the ingestion of pork (4).

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Blood Lead Levels among Office Workers - New York City

On February 15, 1985, morning and afternoon water samples from drinking fountains in the Jacob K. Javits Federal Building (JFB) in New York City were collected because of the poor taste of the water. The U.S. Environmental Protection Agency (EPA) tested samples from five of the 41 floors of the 19-year-old JFB for the presence of heavy metals. Elevated levels of lead were reported for the afternoon samples from fountains at the north end of the building; concentrations ranged from 100 μ g/l to 210 μ g/l; the EPA standard maximum contaminant level for lead in drinking water is 50 μ g/l. Levels of copper were also elevated (up to 5,900 μ g/l).

Repeated testing for lead content of the water from the intake pipes into the building, from the JFB storage tanks, and/or from the drinking fountains and bathroom sinks on the floors of the JFB was undertaken by the EPA on April 18, by a private engineering firm on April 29 and June 10, by the New York City Department of Environmental Protection on May 13, and by the New York City Department of Health (NYCDH) on May 15 and May 17. The highest concentrations of lead were found in water from the north intake pipe sampled through a freshly lead-soldered spigot and were 14,400 μ g/l on April 29 and 1,070 μ g/l on May 15. Of 68 water samples taken from drinking fountains and sinks on 12 floors of the JFB (including the originally tested five floors) and tested by either the NYCDH in May or the private engineering firm in June, 67 samples had acceptable levels of lead; one sample, from an unused fountain, had an elevated lead level of 151 μ g/l.

On May 20, the use of drinking water from the entire JFB was temporarily discontinued in favor of bottled water. The intake pipes, which contained lead solder and had sampling taps with lead solder joints, were subsequently replaced with stainless steel pipes; the mechanical

Blood Lead Levels - Continued

water chillers, which had copper tubing, were repaired; and the corrosiveness (acidity) of the water was decreased.

Because of the uncertainty of employee exposure to lead and the duration of any exposure, a voluntary screening program for blood lead was offered July 9 and July 10 to all of the approximately 10,000 federal employees who worked in the JFB to determine the extent of lead absorption (Table 2). Three hundred sixty-nine (4%) of the employees were tested for blood lead levels. Each employee provided demographic information and exposure-related data concerning the average daily amount of water consumed in the JFB. Blood lead determinations were made at the NYCDH Toxicology Laboratory by atomic absorption spectrophotometry (extraction method) with a lower limit of detection of 10 µg/dl.

Of the 369 employees, 188 (51%) were women. The women ranged in age from 16 years to 74 years (median 37 years); the men ranged in age from 23 years to 69 years (median 42 years). Six women reported they were pregnant, and one woman reported she was possibly pregnant. Two hundred thirty-eight (64%) of the employees resided in New York City; the others lived in New York City suburbs.

Of the employees tested, 85% had blood lead levels of 10 μ g/dl or lower. The highest detected blood lead level, found in one employee, was 27 μ g/dl. The percentage of employees with blood lead levels greater than 10 μ g/dl increased significantly with increasing age, with a drop-off among persons aged at least 60 years (p < 0.05) (Table 1). Blood lead levels did not differ significantly among persons when categorized by sex, agency of employment, floor of employment, self-reported average daily consumption of water while at work, or place of residence. Of the seven pregnant or possibly pregnant women, six had blood lead levels of 10 μ g/dl or less, and one had a level of 13 μ g/dl.

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Editorial Note: The water in the JFB intake pipe was apparently contaminated with lead from solder in the pipes and from the lead-soldered sampling tap. If the drinking water on all floors was contaminated with excess lead, either the level was insufficiently elevated, the duration of exposure was too short, or the amount of consumption was too small to result in any evident increase in absorption and blood lead levels among the employees. Nevertheless, the water distribution and chilling systems have been repaired, and the water in the JFB is now being filtered and chilled to decrease the concentration of heavy metals. The water is being monitored quarterly to ensure good drinking water quality; the initial tests revealed that all water samples had lead levels within standard limits.

None of the 369 adults tested had abnormal absorption of lead from the environment, as evidenced by the blood lead levels. The majority of office workers tested had blood lead levels of $10 \mu g/dl$ or less. A national survey of adults revealed a mean blood lead level of $9.2 \mu g/dl$ in 1980, a 37% decline over 4 years (1). Overall, for the 4 years 1977-1980, the national survey revealed age-group-specific mean levels for adults of between 13.1 $\mu g/dl$ and 15.3 $\mu g/dl$,

TABLE 2. Jacob K. Javits Federal Building employee blood lead levels, by age — New York City, July 9-10, 1985

Blood lead	Age (years)										
level (µg/dl)	< 30	30-39	40-49	50-59	≥ 60	Unknown	Total				
≤ 10	43	116	70	44	34	5	312				
11-19	0	16	10	18	5	1	50				
20-27	0	0	4	3	0	0	7				
Total	43	132	84	65	39	6	369				

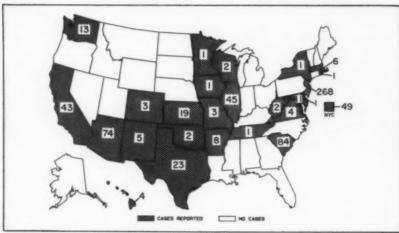
Blood Lead Levels - Continued

with the peak among persons aged 45-54 years (2). The results of the New York City survey parallel the national survey. In addition, nationally, blood lead levels were higher among urban residents (2).

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FIGURE I. Reported measles cases - United States, weeks 14-17, 1986



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